BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to CC Road in Poojari Narayanappa Layout and Byregowda House Road, Kallappa Layout in Ward No. 10, Doddabommasandra, Vidyaranyapura Sub Division.

	010-17-000007		P-3173		Estimate Cost Rs.			2000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	cum							
	CC Road		2	90.00	4.90	0.15	132.30		
			1	60.00	4.80	0.10	28.80		
			1	21.00	3.00	0.15	9.45		
							170.55	199.36	**34002.00**
	Basic Rate	82.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km = 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	CC Road		2	90.00	4.90	0.15	132.30		
			1	60.00	4.80	0.15	43.20		
			1	21.00	3.00	0.15	9.45		
							184.95	5159.02	**954161.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
	CC Road		2	90.00	4.90		882.00		
			1	60.00	4.80		288.00		
			1	21.00	3.00		63.00		
							1233.00	95.40	**117628.00**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
	Sub Total								**1979156.00**
	Third Party Inspection Charges @ 1%								**19792.00**
	Miscellaneous and other Charges	L/S							**1052.00**
								Total	**2000000.00**

(Rupees Twenty Lakhs Only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2016-17 P3173 Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

20/02

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

20/02

Administrative Approval
Accorded For ....20.00 lakhs Rs.
Head of A/C.....P3173
CER NO :.....209 Dt:..25.02.17

TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c. P-3173
Div. Ref. No. 158/16-17 Date. 16/03/17

16/03
AE

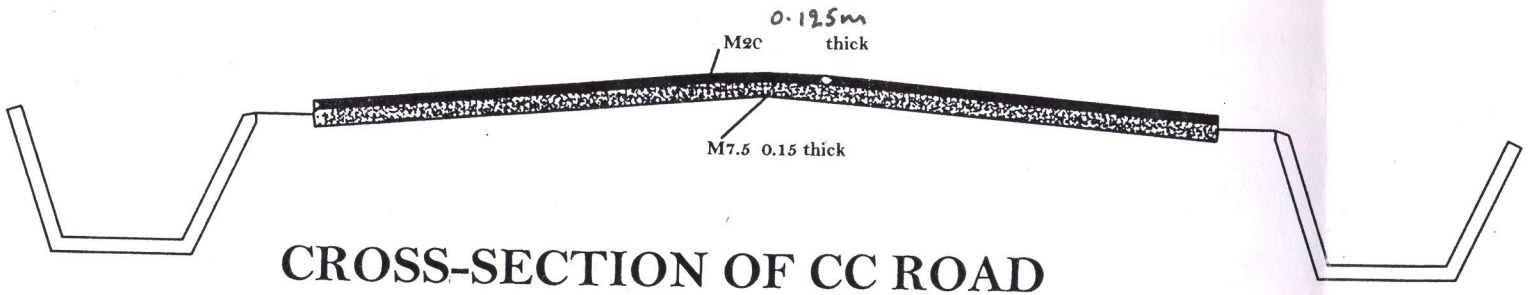
16/03
EE(BTP)

Name of Work: Improvements to CC Road in Poojari Narayanappa Layout and Byregowda House Road, Kallappa Layout in Ward No. 10, Doddabommasandra.

Zadhao
AE

Administrative Approval

NAME OF WORK:-



CROSS-SECTION OF CC ROAD

INDEX

M7.5 1:4:8 0.15m Thick

M20 1:1.5:3 0.125 Thick

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
	Side Wall		2	90.00		0.30	54.00		
			1	60.00		0.30	18.00		
			1	21.00		0.30	6.30		
							78.30	310.58	**24318.00**
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
4	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) Page No. 177 / Item No. 22.6.2 PWD SR 2016-17**	Cum							
	CC Road		2	90.00	4.90	0.125	110.25		
			1	60.00	4.80	0.125	36.00		
			1	21.00	3.00	0.125	7.88		
							154.13	5508.82	**849047.00**
	Basic Rate	5197.00							
	Area Weightage @ 6%	311.82							
	Total	**5508.82**							